

AUTHOR INDEX

- AALDERS, L. E. *See* Jackson, L. P., 113.
- ALKIER, A. C., RACZ, G. J. and SOPER, R. J. Effects of foliar- and soil-applied nitrogen and soil nitrate-nitrogen level on the protein content of Neepawa wheat, 301.
- ARSHAD, M. A., HUANG, P. M. and ST. ARNAUD, R. J. Effects of some chemical treatments on K/Ca cation exchange selectivity of layer silicates, 151.
- ARSHAD, M. A., ST. ARNAUD, R. J. and HUANG, P. M. Dissolution of trioctahedral layer silicates by ammonium oxalate, sodium dithionite-citrate-bicarbonate, and potassium pyrophosphate, 19.
- ASAMOA, G. K. and PROTZ, R. Influence of discontinuities in particle size on the genesis of two soils of the Honeywood catena, 497.
- AYRES, K. W., BUTTON, R. G. and DE JONG, E. Soil morphology and soil physical properties. I. Soil aeration, 311.
- BARIL, R. W. *See* De Kimpe, C. R., 135.
- BETTANY, J. R. and HALSTEAD, E. H. An automated procedure for the nephelometric determination of sulfate in soil extracts, 127.
- BIEDERBECK, V. O. *See* Campbell, C. A., 323.
- BISAL, FREDERICK and HINMAN, W. C. A method of estimating the apparent density of soil aggregates, 513.
- BISHOP, R. F., SMELTZER, G. G. and MACEACHERN, C. R. Response of corn to nitrogen, phosphorus, and potassium, 27.
- BOURGEOIS, W. W. and LAVKULICH, L. M. Application of acrylic plastic tension lysimeters to sloping land, 288.
- BOURGEOIS, W. W. and LAVKULICH, L. M. A study of forest soils and leachates on sloping topography using a tension lysimeter, 375.
- BROCKE, LARRY K. Letter to the editor, 520.
- BRYDON, J. E. and SHIMODA, S. Allophane and other amorphous constituents in a podzol from Nova Scotia, 465.
- BUTTON, R. G. *See* Ayres, K. W., 311.
- CAIRNS, R. R. Effects of Solonetz soil horizon mixing on the availability of nitrogen to plants in the greenhouse, 195.
- CAIRNS, R. R. Effects of surfactants applied to samples of Solonetz soil on water penetration and plant growth, 267.
- CAIRNS, R. R. Probable role of calcium compounds in increasing crop yields on deep-plowed Solonetz soil, 393.
- CAMPBELL, C. A. and BIEDERBECK, V. O. Influence of fluctuating temperatures and constant soil moistures on nitrogen changes in amended and unamended loam, 323.
- CARSON, J. A., CREPIN, J. M. and NEMUNIS-SIUGZDINIS, P. A sulfate-sulfur method used to delineate the sulfur status of soils, 278.
- CHENG, B. T. and OUELLETTE, G. J. Manganese toxicity in potatoes as affected by various P sources, 274.
- CHENG, S. M., THOMAS, R. L. and ELRICK, D. E. Reactions and movement of EDTA and Zn EDTA in soils, 337.
- CREPIN, J. M. *See* Carson, J. A., 278.
- CUKOR, N. *See* Sneddon, J. I., 518.
- DE JONG, E. *See* Ayres, K. W., 311.
- DE KIMPE, C. R., BARIL, R. W. and RIVARD, R. Characterization of a toposequence with fragipan: the Leeds-St. Marie-Brompton series of soils, Province of Quebec, 135.
- DE SERRA, MARIA ORTIZ and SCHNITZER, M. Extraction of humic acid by alkali and chelating resin, 365.

- DOORNENBAL, G. *See* Walker, D. R., 261.
- DORMAAR, J. F. Seasonal pattern of soil organic phosphorus, 107.
- DORMAAR, J. F. Chemical properties of organic matter extracted from a number of Ah horizons by a number of methods, 67.
- DUMANSKI, J. *See* McGill, W. B., 285.
- ELRICK, D. E. *See* Cheng, S. M., 337.
- FARSTAD, L. *See* Sneddon, J. I., 518.
- FERGUSON, W. S. *See* Spratt, E. D., 187.
- FINN, B. J. *See* MacLean, A. J., 427.
- GILLESPIE, J. E. and PROTZ, R. The micromorphology and electron microprobe analysis of two residual soils, one developed on granite, the other on marble, in Peterborough County, Ontario, 79.
- GONZALEZ, ANTONIO et HUBERT, GÉRARD. Propriétés chimiques et physiques de la matière organique nondialysable extraite de quatre podzols du Québec, 1.
- GORBY, B. J. *See* Spratt, E. D., 187.
- GRAVELAND, D. N. *See* Milne, R. A., 270.
- HALL, I. V. *See* Jackson, L. P., 113.
- HALSTEAD, E. H. *See* Bettany, J. R., 127.
- HALSTEAD, R. L. *See* MacLean, A. J., 427.
- HANCE, R. J. *See* Moyer, J. R., 439.
- HERINGA, P. K. *See* Ivarson, K. C., 401.
- HINMAN, W. C. *See* Bisal, Frederick, 513.
- HOBBS, E. H. *See* Krogman, K. K., 359.
- HOYT, P. B. and NYBORG, M. Use of dilute calcium chloride for the extraction of plant-available aluminum and manganese from acid soil, 163.
- HUANG, P. M. *See* Arshad, M. A., 19.
- HUANG, P. M. *See* Arshad, M. A., 151.
- HUBERT, GÉRARD. *See* Gonzalez, Antonio, 1.
- IQBAL, M. M. and WARKENTIN, B. P. Influence of surface soil conditions on drying in early spring, 449.
- IVARSON, K. C. *See* Mack, A. R., 225.
- IVARSON, K. C. and HERINGA, P. K. Oxidation of manganese by microorganisms in manganese deposits of Newfoundland soil, 401.
- IVARSON, K. C. and MACK, A. R. Root-surface mycoflora of soybean in relation to soil temperature and moisture in a field environment, 199.
- JACKSON, L. P., HALL, I. V. and AALDERS, L. E. Lowbush blueberry seedling growth as affected by soil type, 113.
- JOHN, MATT K. Cadmium adsorption maxima of soils as measured by the Langmuir isotherm, 343.
- JOHN, MATT K., LAVKULICH, L. M. and ZOOST, M. A. Representation of soils data for the computerized filing system used in British Columbia, 293.
- JOHN, MATT K., VAN LAERHOVEN, C. J. and SPROUT, P. N. A system of soils information retrieval, 351.
- KETCHESON, J. W. *See* Mirreh, H. F., 477.
- KHAN, S. U. and SCHNITZER, M. Permanganate oxidation of humic acids, fulvic acids, and humins extracted from Ah horizons of a Black Chernozem, a Black Solod, and a Black Solonetz soil, 43.

AUTHOR INDEX

- KHAN, S. U. and SOWDEN, F. J. Distribution of nitrogen in fulvic acid fraction extracted from the Black Solonchic and Black Chernozemic soils of Alberta, 116.
- KODAMA, H. and SINGH, S. SHAH. Hydroxy aluminum sulfate-montmorillonite complex, 209.
- KROGMAN, K. K. and HOBBS, E. H. Salinity and drainage in a Brown Chernozem irrigated at different minimum moisture contents, 359.
- LAVKULICH, L. M. *See* Lewis, T., 91.
- LAVKULICH, L. M. *See* Bourgeois, W. W., 288.
- LAVKULICH, L. M. *See* Bourgeois, W. W., 375.
- LAVKULICH, L. M. *See* John, Matt K., 293.
- LAVKULICH, L. M. and LEWIS, T. A soil derived from shallow glacial drift over limestone, Texada Island, British Columbia, 219.
- LEWIS, T. *See* Lavkulich, L. M., 219.
- LEWIS, T. and LAVKULICH, L. M. Some folisols in the Vancouver area, British Columbia, 91.
- LUTWICK, L. E. Thermal decomposition reactions of clay-organic matter complexes and organic matter separated from a Black Chernozemic soil, 417.
- MACEACHERN, C. R. *See* Bishop, R. F., 27.
- MACK, A. R. *See* Ivarson, K. C., 199.
- MACK, A. R. and IVARSON, K. C. Yield of soybeans and oil quality in relation to soil temperature and moisture in a field environment, 225.
- MACLEAN, A. J., HALSTEAD, R. L. and FINN, B. J. Effects of lime on extractable aluminum and other soil properties and on barley and alfalfa grown in pot tests, 427.
- MACLEOD, L. B. and SUZUKI, MICHIO. Effects of N, P, and K on chemical composition of barley grown on a low-fertility Podzol soil in the greenhouse, 169.
- MATHUR, S. P. *See* Miles, N., 515.
- MCGILL, W. B., DUMANSKI, J. and REDBERGER, P. Small computer application to direct processing of data from analytical equipment used in soil laboratories, 285.
- MCIVER, R. N. *See* Spratt, E. D., 53.
- MCKERCHER, R. B. *See* Moyer, J. R., 439.
- MILES, N. and MATHUR, S. P. Seasonal incidence of anhydrous uric acid granules in the collision zone of two fairy rings, 515.
- MILNE, R. A. and GRAVELAND, D. N. Sewage sludge as a fertilizer, 270.
- MIRREH, H. F. and KETCHESON, J. W. Influence of soil bulk density and matric pressure on soil resistance to penetration, 477.
- MOYER, J. R., MCKERCHER, R. B. and HANCE, R. J. Desorption of some herbicides from montmorillonite and peat, 439.
- NEMUNIS-SIUGZDINIS, P. *See* Carson, J. A., 278.
- NYBORG, M. *See* Hoyt, P. B., 163.
- OUELLETTE, G. J. *See* Cheng, B. T., 274.
- PARTRIDGE, J. R. D. and SHAYKEWICH, C. F. Effects of nitrogen, temperature, and moisture regime on the yield and protein content of Neepawa wheat, 179.
- PAWLUK, S. Measurement of crystalline and amorphous iron removal in soils, 119.
- PROTZ, R. *See* Gillespie, J. E., 79.
- PROTZ, R. *See* Asamo, G. K., 497.
- RACZ, G. J. *See* Alkier, A. C., 301.
- REDBERGER, P. *See* McGill, W. B., 285.
- RIVARD, R. *See* De Kimpe, C. R., 135.

- SCHNITZER, M. *See* Khan, S. U., 43.
- SCHNITZER, M. *See* De Serra, Maria Ortiz, 365.
- SEPHTON, G. A. *See* St. Arnaud, R. J., 124.
- SEPHTON, G. A. *See* St. Arnaud, R. J., 520.
- SHAYKEWICH, C. F. *See* Ward, James, 99.
- SHAYKEWICH, C. F. *See* Partridge, J. R. D., 179.
- SHIMODA, S. *See* Brydon, J. E., 465.
- SINGH, S. SHAH. *See* Kodama, H., 209.
- SMELTZER, G. G. *See* Bishop, R. F., 27.
- SNEDDON, J. I., CUKOR, N. and FARSTAD, L. A technique for rapidly determining topographic class from topographic maps, 518.
- SOPER, R. J. *See* Alkier, A. C., 301.
- SOWDEN, F. J. Effects of silicon on automated methods for the determination of phosphate in water, 237.
- SOWDEN, F. J. *See* Khan, S. U., 116.
- SPRATT, E. D., GORBY, B. J. and FERGUSON, W. S. Production of eight cropping systems on saline and gleysolic alluvium soil, The Pas, Manitoba, 187.
- SPRATT, E. D. and MCIVER, R. N. Effects of topographical positions, soil test values, and fertilizer use on yields of wheat in a complex of Black Chernozemic and Gleysolic soils, 53.
- SPROUT, P. N. *See* John, Matt K., 351.
- ST. ARNAUD, R. J. *See* Arshad, M. A., 19.
- ST. ARNAUD, R. J. *See* Arshad, M. A., 151.
- ST. ARNAUD, R. J. and SEPHTON, G. A. Contribution of clay and organic matter to cation-exchange capacity of Chernozemic soils, 124.
- ST. ARNAUD, R. J. and SEPHTON, G. A. Letter to the editor, 520.
- STEVENSON, D. S. Flow of water into ceramic tubes simulating root systems, 59.
- SUZUKI, MICHIO. *See* MacLeod, L. B., 169.
- TARNOCAL, C. Some characteristics of cryic organic soils in northern Manitoba, 485.
- THOMAS, R. L. *See* Cheng, S. M., 337.
- TOOGOOD, J. A. Effects of fertilizers, species, and maturity on yields, economic returns, and nutritive value of grasses and legumes grown on a Gray Wooded soil, 245.
- VAN LAERHOVEN, C. J. *See* John, Matt K., 351.
- WALKER, D. R. Soil sulfate. I. Extraction and measurement, 253.
- WALKER, D. R. and DOORNENBAL, G. Soil sulfate. II. As an index of the sulfur available to legumes, 261.
- WARD, JAMES and SHAYKEWICH, C. F. Water absorption by wheat seeds as influenced by hydraulic properties of soil, 99.
- WARKENTIN, B. P. Use of the liquid limit in characterizing clay soils, 457.
- WARKENTIN, B. P. *See* Iqbal, M. M., 449.
- WEBBER, M. D. A comparison of ignition treatments for Pb measurement in plant tissues, 282.
- ZOOST, M. A. *See* John, Matt K., 293.

B

ng
ate
ng
es,
is,
to
ns,
fur
ced
ues,